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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/633,332	(07/31/2003	Ernest D. Miller	26669/4:2	4195
3528	7590	02/14/2005		EXAMINER	
STOEL RIV	ES LLP		WILLIAMS, THOMAS J		
900 SW FIF7	TH AVEN	TUE			
SUITE 2600				ART UNIT	PAPER NUMBER
PÖRTLAND	, OR 97	⁷ 204	3683		
				DATE MAILED: 02/14/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

N							
		Application No.	Applicant(s)				
Office Action	· · · · · · · · · · · · · · · · · · ·	10/633,332	MILLER, ERNEST D.				
\ Onice Actio	on Summary	Examiner	Art Unit				
T		Thomas J. Williams	3683				
Period for Reply A SHORTENED STATU THE MAILING DATE OF	JTORY PERIOD FOR REPLY F THIS COMMUNICATION.	ears on the cover sheet with the	I(S) FROM				
after SIX (6) MONTHS from the If the period for reply specified If NO period for reply is specifie Failure to reply within the set or	e mailing date of this communication. above is less than thirty (30) days, a reply ed above, the maximum statutory period w r extended period for reply will, by statute, e later than three months after the mailing	36(a). In no event, however, may a reply be to within the statutory minimum of thirty (30) darill apply and will expire SIX (6) MONTHS from cause the application to become ABANDON date of this communication, even if timely file	eys will be considered timely. In the mailing date of this communication. ED (35 U.S.C. § 133).				
Status							
1) Responsive to con	mmunication(s) filed on	_ '					
′ =)☐ This action is FINAL . 2b)☑ This action is non-final.						
, —	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4)⊠ Claim(s) <u>1-10</u> is/a	re pending in the application.						
4a) Of the above of	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is.	Claim(s) is/are allowed.						
	Claim(s) <u>1-10</u> is/are rejected.						
_	Claim(s) is/are objected to.						
8) Claim(s) ar	e subject to restriction and/or	election requirement.					
Application Papers							
9) ☐ The specification is	s objected to by the Examiner	r.					
10)⊠ The drawing(s) filed on <u>23 January 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.							
Applicant may not re	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
<u> </u>	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declar	ation is objected to by the Ex	aminer. Note the attached Office	e Action or form PTO-152.				
Priority under 35 U.S.C. §	119						
12)☐ Acknowledgment i a)☐ All b)☐ Some	_	priority under 35 U.S.C. § 119(a	a)-(d) or (f).				
	pies of the priority documents	s have been received.					
	•	s have been received in Applica	tion No				
	ne certified copies of the prion from the International Bureau	ity documents have been receiv	ved in this National Stage				
• •		of the certified copies not receive	ed.				
		-					
Au							
Attachment(s) 1) Notice of References Cited ((PTO_802)	4) 🔲 Interview Summar	~ v (PTO 413)				
2) Notice of Draftsperson's Pat		Paper No(s)/Mail [Date				
	ement(s) (PTO-1449 or PTO/SB/08)		Patent Application (PTO-152)				

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DETAILED ACTION

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1. Acknowledgment is made in the receipt of the oath filed January 23, 2004.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the

basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on

sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-10 are rejected under 35 U.S.C. 102(b) as being anticipated by US 3,251,076 to 3.

Burke.

Re-claims 1 and 4, Burke discloses in figures 13-16 a micro-support cushion system,

comprising: a planer base 310, or base sheet and top sheet; a plurality of spring structures 300

arranged on the base or the respective sheets; each spring structure comprises a top compression

layer 304 with a contact surface area and a corresponding bottom compression layer 302 with a

contact area, both layers are formed of compressible materials, the spring structures are

substantially aligned with one another; each bottom layer 302has a larger contact surface (due to

the step surfaces) than the top layer 304 thereby providing a higher compression rate that the top

layer (see column 10 lines 37-49); any additional force applied to the top layer 304 is

substantially transferred through the top layer to the bottom layer.

Re-claim 2, the spring structures are interconnected.

Re-claim 3, the pattern is such that the spring structures are spaced from one another and

thus are capable of being spaced apart by 0.25 inches.

Re-claim 5, the compression structure comprises concentric cylinders.

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Re-claim 6, the compression structure comprises a plurality of frustum shaped layers, see figure 14.

Re-claim 7, Burke discloses a layered spring assembly comprising: a layered spring structure and a corresponding compression structure formed from compressible materials, the structures are aligned with each other.

Re-claims 8 and 9, the compression structure is substantially flat (each layer of 302 is flat); the compression structure is layered.

Re-claim 10, the spring structure 304 includes an integrally formed central plunger; the compression structure 302 includes a recess sized to receive the plunger; the plunger has a length greater than the height of the recess (note the interaction between the plunger and the step portions of the recess), the plunger is compressed when fully engaged in the recess.

4. Claims 4-9 are rejected under 35 U.S.C. 102(b) as being anticipated by US 4,521,979 to Blaser.

Re-claim 4, Blaser discloses a micro-support structure comprising: a base sheet 14 or 25 and a top sheet 14 or 25; a plurality of spring structures are formed on the base sheet (as in figure 4c of the instant application); a plurality of compression structures (such as 15) are formed on the top sheet, the compression structures are aligned over the spring structures, such as pad 25.

Re-claims 5 and 6, the compression structure 15 comprises concentric cylinders 17, 18, the cylinders have frustum shaped layers, see figure 5.

Re-claim 7, Burke discloses a layered spring assembly comprising: a layered spring structure and a corresponding compression structure formed from compressible materials, the structures are aligned with each other.

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Re-claims 8 and 9, the compression structure is substantially flat (when interpreting the compression structure as 25, this is consistent with figure 4c in the instant application); the compression structure is layered (when interpreting the compression structure as 15).

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure. Willison et al., Buehrig, Henley, Szonn, Van Goubergen, Willison, Selner, Gooding,

and Sasaki (JP 55-54738) each teach a support cushion system.

6. Any inquiries concerning this communication or earlier communications from the

examiner should be directed to Thomas Williams whose telephone number is (703) 305-1346

(after April 2005 the new telephone number will be 571-272-7128). The examiner can normally

be reached on Monday-Thursday from 6:30 AM to 4:00 PM. The examiner can also be reached

on alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Dave Bucci, can be reached at (703) 308-3668 (after April 2005 the new telephone

number will be 571-272-7099). The fax phone number for the organization where this

application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is (703) 308-1113.

TJW

February 10, 2005

Thomas Williams Patent expansion

homes William

AU 1683

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